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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-25-15** **Date: 28-06-2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-2018

Sample ID No : 2018-06-25-15 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-06-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	152	180	18.0	82.0	60-95	75-100	85-100	95-100
4	1.18 mm	172	352	35.2	64.8	30-70	55-90	75-100	90-100
5	600 micron	159	511	51.1	48.9	15-34	35-59	60-79	80-100
6	300 micron	253	764	76.4	23.6	5-20	8-30	12-40	15-50
7	150 micron	158	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-25-15** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/000009/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-15 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	214	214	4.3	95.7	90-100
3	10 mm	2899	3113	62.3	37.7	25-55
4	4.75 mm	1752	4865	97.3	2.7	0-10
5	Pan	135	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-25-15** **Date: 28-06-2018**

Sample ID No : 2018-06-25-15 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.1	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-25-15** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/000009/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-15 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-06-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	5728	6102	40.7	59.3	30-70
4	10 mm	4773	10875	72.5	27.5	10-35
5	4.75 mm	3464	14339	95.6	4.4	0-5
6	Pan	661	15000	100.0	0	---

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-06-25-15** **Date: 28-06-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/000009/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-15 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-06-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.4	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time (minutes)	145 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.5mm	Not more than 10 mm

Note:

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2018-06-25-15**

Date: 27-06-2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-2018

Sample ID No : 2018-06-25-15 /05

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 26-06-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.396	546	674	19.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	564	687	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	586	692	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2018-07-03-07 Date: 30/07/2018

Lab ID : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Customer : Yelahanka Sub Division, BBMP, Bangalore.
Address : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.
Project Name : Technical Manager (West), KRIDL, BBMP, Bangalore.
Agency : BBMP/EE(YNK.D)/W.O/000009/2018-19
Customer's Reference : Sample supplied by Agency
Source of Sample : Satisfactory
Sample Condition : 03-07-2018
Date of Receipt : 2018-07-03-07 /02
Sample ID No : RCC
Customer ID : 150X150X150 mm
Sample Type /Size : M20 / 28 Days Compressive Strength
Sample grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Reference to BIS codes
Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/07/2018	30/07/2018	151.42 X 151.75 X 149.40	22978	8.170	546.4	23.8	23.2
2	RCC	M20	02/07/2018	30/07/2018	150.65 X 150.16 X 150.78	22622	8.127	515.0	22.8	
3	RCC	M20	02/07/2018	30/07/2018	151.80 X 149.47 X 149.04	22690	8.536	526.0	23.2	

Note:
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-06-25-15**
		Date: 29-06-2018
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/000009/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-2018
Sample ID No	:	2018-06-25-15 /04
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-06-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	150	202	12181	24.850	2040.1	2028.7	Not less than 1800Kg/m^3
2	401	152	201	12251	24.840	2027.5		
3	403	151	202	12292	24.810	2018.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.71	24.38	5.46	5.56	Shall not be more than 10% by mass
2	25.87	24.45	5.81		
3	25.83	24.50	5.43		

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Lab ID : CP-2018-06-25-15

Date: 29-06-2018

Sample ID No : 2018-06-25-15 /04

COMPRESSIVE STRENGTH:

Sl No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	151	60702	262.1	4.3	4.2
2	401	150	60150	243.5	4.0	
3	401	152	60952	253.8	4.2	
4	402	150	60300	248.9	4.1	
5	403	149	60047	273.8	4.6	
6	405	152	61560	249.6	4.1	
7	404	153	61812	258.4	4.2	
8	400	150	60000	263.7	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-07-03-07

Date: 09/07/2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-07 /03

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/07/2018	09/07/2018	149.56 X 150.35 X 150.89	22487	8.314	410.9	18.3	18.6
2	RCC	M20	02/07/2018	09/07/2018	149.20 X 149.85 X 150.91	22359	7.975	419.3	18.8	
3	RCC	M20	02/07/2018	09/07/2018	150.57 X 149.73 X 149.31	22545	8.381	425.4	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-07-03-07

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 30/07/2018**

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-07-2018

Sample ID No : 2018-07-03-07 /04

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/07/2018	30/07/2018	150.89 X 149.55 X 150.92	22566	8.070	528.2	23.4	23.1
2	RCC	M20	02/07/2018	30/07/2018	151.05 X 151.43 X 150.08	22874	8.114	507.7	22.2	
3	RCC	M20	02/07/2018	30/07/2018	151.58 X 151.16 X 151.38	22913	8.072	544.3	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-07-10-06

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 16/07/2018**

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2018

Sample ID No : 2018-07-10-06 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC	M20	09/07/2018	16/07/2018	149.85 X 149.31 X 150.98	22374	7.969	410.3	18.3	18.4
2	RMC	M20	09/07/2018	16/07/2018	151.19 X 151.14 X 151.17	22850	8.104	417.7	18.3	
3	RMC	M20	09/07/2018	16/07/2018	150.65 X 149.77 X 149.34	22563	8.568	415.8	18.4	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig Date

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-07-10-06

Date: 06/08/2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2018

Sample ID No : 2018-07-10-06 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/07/2018	06/08/2018	150.39 X 151.07 X 150.31	22720	8.152	545.2	24.0	23.6
2	RMC	M20	09/07/2018	06/08/2018	149.01 X 149.54 X 150.95	22283	8.162	509.9	22.9	
3	RMC	M20	09/07/2018	06/08/2018	150.46 X 151.89 X 149.70	22854	8.389	548.4	24.0	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-10-06 **Date: 16/07/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2018

Sample ID No : 2018-07-10-06 /03

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	RMC	M20	09/07/2018	16/07/2018	150.77 X 151.50 X 150.44	22842	7.969	421.3	18.4	18.2
2	RMC	M20	09/07/2018	16/07/2018	150.14 X 149.65 X 149.69	22469	8.320	407.1	18.1	
3	RMC	M20	09/07/2018	16/07/2018	151.17 X 150.19 X 150.56	22704	8.146	412.5	18.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-07-10-06 **Date: 06/08/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2018

Sample ID No : 2018-07-10-06 /04

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/07/2018	06/08/2018	151.68 X 150.95 X 150.93	22896	8.378	541.0	23.6	23.3
2	RMC	M20	09/07/2018	06/08/2018	150.84 X 151.92 X 151.55	22915	8.306	515.1	22.5	
3	RMC	M20	09/07/2018	06/08/2018	151.11 X 151.19 X 149.32	22846	8.155	545.0	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-07-10-06** **Date: 16/07/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2018

Sample ID No : 2018-07-10-06 /05

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/07/2018	16/07/2018	151.00 X 149.16 X 150.97	22523	8.251	414.8	18.4	18.5
2	RMC	M20	09/07/2018	16/07/2018	150.23 X 150.95 X 151.57	22676	8.221	424.5	18.7	
3	RMC	M20	09/07/2018	16/07/2018	150.10 X 150.66 X 150.94	22614	8.156	412.0	18.2	

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Lab ID : CP-2018-07-10-06 Date: 06/08/2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound Wall at Farmers Market in Ward No.01 of Yelahanka Sub Division.

Agency : Technical Manager (West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/000009/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-2018

Sample ID No : 2018-07-10-06 /06

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/07/2018	06/08/2018	149.20 X 150.40 X 149.22	22440	8.447	522.9	23.3	23.0
2	RMC	M20	09/07/2018	06/08/2018	151.14 X 149.30 X 150.79	22565	8.222	508.4	22.5	
3	RMC	M20	09/07/2018	06/08/2018	151.04 X 149.23 X 149.13	22540	8.484	521.9	23.2	

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